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APPLICATION NO.	FIL	ING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/777,915	02/05/2001		Robert R. Andrews	08261-017001	6193
26161	7590	06/15/2005		EXAM	INER
FISH & RIC	HARDS	ON PC	TRAN, BINH Q		
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BOSTON, M	IA 02110)	•	ART UNIT	PAPER NUMBER
				3748	

DATE MAILED: 06/15/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/777,915	ANDREWS ET AL.				
Office Action Summary	Examiner	Art Unit				
	BINH Q. TRAN	3748				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	ith the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory properties of the period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	ON. FR 1.136(a). In no event, however, may a n. a reply within the statutory minimum of thi eriod will apply and will expire SIX (6) MO statute, cause the application to become A	reply be timely filed rly (30) days will be considered timely. NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 2	24 March 2005.					
2a) ☐ This action is FINAL . 2b) ☑	This action is non-final.					
3) Since this application is in condition for all closed in accordance with the practice und	•					
Disposition of Claims						
4) ⊠ Claim(s) <u>1-10</u> is/are pending in the application 4a) Of the above claim(s) is/are with 5) □ Claim(s) is/are allowed. 6) ⊠ Claim(s) <u>1-10</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and	ndrawn from consideration.					
Application Papers						
9)☐ The specification is objected to by the Exa	miner.					
I0) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to	- · ·					
Replacement drawing sheet(s) including the constant of the con						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docur 2. Certified copies of the priority docur 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	ments have been received. ments have been received in priority documents have bee ureau (PCT Rule 17.2(a)).	Application No n received in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892)	· 4) 🗍 Interview	Summary (PTO-413)				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-94/3) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date <u>08/04,10/04,04/05</u>. 	8) Paper No	(s)/Mail Date Informal Patent Application (PTO-152)				

DETAILED ACTION

This office action is in response to the amendment filed March 24, 2005.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over Brauer (Patent Number 5,951,543) in view of Eisel et al. (Eisel) (Patent Number 5,412,681).

Regarding claims 1 and 6, Brauer discloses a cardiac laser surgery apparatus and method comprising: a sealed CO2 slab laser (e.g. 620), and a laser delivery system (e.g. See Figs. 5-6); wherein the laser providing pulses of adjustable length in time so as provide energy of between 8 and 10 Jules per pulse (e.g. See col. 10, lines 15-25); and the laser delivery system for delivering laser pulses from said laser to a patient's heart (e.g. See Figs. 5-6; col. 8, lines 65-67; cols. 9-10, lines 1-67). However he fails to disclose that the slab laser including two narrowly spaced electrodes having opposed planar surfaces and a rectangular discharge region defined between the opposed planar surfaces of the two narrowly spaced electrodes.

Eisel teaches that it is conventional in the art, to use a slab laser including two narrowly spaced electrodes having opposed planar surfaces and a rectangular discharge region defined

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between the opposed planar surfaces of the two narrowly spaced electrodes (e.g. See Abstract; Figs. 2-13; col. 5, lines 51-67; col. 6, lines 1-46).

It would have been obvious to one having ordinary skill in the art at the time the invention was made, to use a slab laser including two narrowly spaced electrodes having opposed planar surfaces and a rectangular discharge region defined between the opposed planar surfaces of the two narrowly spaced electrodes of Brauer, as taught by Eisel for the purpose of delivering laser pulses to the CO2 slab laser device; so as to increase the power and efficiency of the laser slab device during laser surgery of the patient's heart.

Regarding claims 2 and 7, Brauer further discloses that the laser delivery system includes a hand piece for delivering pulses to the outside of a patient's heart to provide openings in the patient's heart for myocardial revascularization (e.g. See Figs. 5-6; col. 8, lines 65-67; cols. 9-10, lines 1-67).

Regarding claims 3 and 8, Brauer further discloses that the pulses are shorter than 100 ms (e.g. See Figs. 5-6; col. 10, lines 15-67; col. 11, lines 34-63).

Regarding claims 4 and 9, Brauer further discloses that the laser delivery system is synchronized to the heart beat to fire when the heart is electrically insensitive to reduce the chanceofarrhythmia (e.g. See Figs. 5-6; col. 10, lines 15-67; col. 11, lines 34-63).

Regarding claims 5 and 10, Brauer further discloses that the laser starts firing on the R wave and stops before the T wave (e.g. See Figs. 5-6; col. 10, lines 15-67; col. 11, lines 1-63).

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Response to Arguments

Applicant's arguments filed March 24, 2005 have been fully considered but they are not completely persuasive. *Claims 1-10 are pending*.

Applicant's cooperation in explaining the claims subject matter more specific to overcome the claim rejection is also appreciated.

Applicants' s arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection as discussed above.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Examiner Binh Tran whose telephone number is (571) 272-4865. The

examiner can normally be reached on Monday-Friday from 8:30 a.m. to 5:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor,

Thomas E. Denion, can be reach on (571) 272-4859. The fax phone numbers for the organization

where this application or proceeding is assigned are (703) 872-9306 for regular communications

and for After Final communications.

Information regarding the status of an application may be obtained from the Patent

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system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BT

June 10, 2005

Binh Q. Tran

Patent Examiner

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